

# HV work during data taking

- Dan and I were able to diagnose the BMU HV problem during data taking without damaging data quality (any more than we already had - BMU was marked bad already)
- For any system, a bad HV channel = bad run
- Unplug the STATUS out on the CAEN of interest (disables hardware trigger inhibit)
- Disable the software trigger inhibit
  - using the iFix control panel for software TI up by the monitoring ace (click disable)
  - (or) pull up the TI control menu on the muon pc and click “clear”
    - normally it's on “auto”
  - that's it
- Works for CAENs that are mixed across systems, for a mixed system one has to consider the implications of a trip on the detector that isn't being marked bad...
- Things that could be done: test pod, sort out CMU cathodes, look at characteristics of trip
- **I believe we can be more aggressive about this than we have been in the past**

# HV work during data taking (2)

- Remember to undo the TI disabling when finished
- We were also able to swap the pod in this instance with minimal disruption to data taking
  - paused the run while we shut down HVMON++
  - restarted data taking
  - turned off the CAEN
  - swapped the pod
  - turned it back on
  - paused the run while we started HVMON++ and waited for monitoring to start up'
    - this was the only significant down time (a few minutes, 5nb-1)